

REMARKS

In the Office Action mailed September 15, 2005, Claims 11, 12, and 18 were rejected under 35 U.S.C. § 101. In response, Claim 11 has been amended to more specifically recite a tangible application of a computer process to be performed by a schedule program server, i.e., to create a display control program and temporary Web pages and send them to a client system so that the client system can then display the temporary Web pages according to the display control program. Thus, Claim 11, as amended, and Claim 12, which depends from amended Claim 11, are believed to be in compliance with 35 U.S.C. § 101. Claim 18 has been canceled.

Claims 1-6, 9-12, 14, 17-20, 23-25, 28, 30, 31, and 33 were rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 6,018,768, to Ullman et al. (hereinafter "Ullman"). Further, Claims 7, 13, 15, 21, 26, 29, and 32 were rejected under 35 U.S.C. § 103(a) as being obvious over Ullman and Claims 8, 16, 22, and 27 were rejected under 35 U.S.C. § 103(a) as being obvious over Ullman in view of U.S. Patent Application Publication No. 2002/0033844, filed by Levy et al. (hereinafter "Levy"). Applicant respectfully traverses the rejection of some of these claims and submits the following. In this connection, applicant has amended or canceled some of the original claims. The remaining claims for the Examiner's review are Claims 3-4, 7-8, and 10-13, of which Claims 10 and 11 are independent.

Prior to discussing why all of the remaining claims are allowable over Ullman and Levy, a brief description of an embodiment of the present invention is set forth below.

Referring to FIGURE 1 of the present application, a system of the invention in various exemplary embodiments consists of a client system 1, such as a TV settop box system, a host workstation 7, a schedule program server 8, and various Web servers 6, which are all connected to the Internet 5. FIGURE 5 of the present application illustrates the data flow among the client (system) 1, the host (workstation) 7, the schedule program server 8, and the Web server 6,

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according to various exemplary embodiments of the present invention. Briefly, a user of the client 1 selects a category (see arrow 74) and the host 7 retrieves (or creates) a schedule program associated with the selected category (see arrow 76). A schedule program lists a plurality of Internet resource addresses. The schedule program is then sent to the schedule program server 8 from the client 1 or from the host 7 (see arrows 78 and 82). The schedule program server 8 then interprets the received schedule program to create temporary Web pages and also a display control program (see arrow 84). Specifically, based on the received schedule program, the schedule program server 8 downloads Web pages from the Web servers 6 to create "temporary" Web pages. Also based on the received schedule program, the schedule program server 8 creates a display control program, which defines how the temporary Web pages are to be displayed on the client 1, such as a display format, display period, scrolling direction, scrolling speed, etc. The schedule program server 8 then transmits the display control program to the client 1 (see arrow 88). Thereafter, the client 1 executes the received display control program to download and display the temporary Web pages. Specifically, the client 1 downloads the temporary Web pages from the schedule program server 8 and displays them according to the display control program, which defines a display format and display period for each of the temporary Web pages. (Specification, page 10, line 6-page 11, line 22; page 13, lines 9-29.)

Applicant respectfully notes that the schedule program server 8 is provided independently of the host workstation 7, which includes one or more schedule programs. As such, the schedule program server 8 receives a schedule program from the host workstation 7 and then interprets the received schedule program to create a display control program and also a plurality of temporary Web pages. Applicant further respectfully notes that both the display control program and the temporary Web pages are created in the schedule program server 8, from which both are downloaded to the client 1. In other words, the client 1 receives the temporary Web pages from

the schedule program server 8 and displays them according to the display control program, to best fit the display screen of the client 1 and/or the user preference, as opposed to receiving and displaying Web pages directly from the Web servers 6.

These aspects of the invention are explicitly recited in each of independent Claims 10 and 11, as amended. Specifically, amended Claim 10 recites a "host workstation comprising a schedule program memory, the memory including a schedule program," "a schedule program server ... being configured to receive a schedule program from the host workstation, to interpret the received schedule program, and to create a plurality of temporary Web pages and a display control program based on the received schedule program," and "a client system ... being configured to download the display control program from the schedule program server, and then to download the temporary Web pages from the schedule program server and display each of them ... according to the downloaded display control program." Likewise, amended Claim 11 recites a computer process to be performed by a schedule program server, including the steps of: "receiving a schedule program," "interpreting the received schedule program," "creating a plurality of temporary Web pages," "based on the interpreted schedule program, creating a display control program," "sending the display control program to a client system," "receiving a request for the temporary Web pages from the client system," and "sending the temporary Web pages to the client system according to the request."

Applicant respectfully submits that Ullman and Levy do not anticipate or render obvious at least these aspects of the invention, as explicitly recited in amended Claims 10 and 11.

Ullman describes a system for integrating video programming with the information available on the Internet. Referring to its FIG. 1, in Ullman:

at each subscriber home, an associated local URL decoder 12 receives the cable video television program, as shown in FIG. 1. The local URL decoder 12 extracts the URLs, preferably embedded in the vertical blanking interval, with the user of

any conventional VBI decoder device. The URL decoder 12 may be either a stand-alone unit or a card which is implemented into the personal computer 16.

(Col. 5, lines 49-57.)

Therefore, in Ullman, the "local URL decoder 12" at each subscriber home extracts the URLs embedded in video programming, and the "personal computer 16" uses the extracted URLs to retrieve Web pages directly from the corresponding Web servers. In alternative systems of FIGS. 2 and 4 also, although the URLs may be extracted externally of the personal computer 16 (e.g., by the "server URL decoder 24" in FIG. 2 or over "a direct Internet connection 94" in FIG. 4), the personal computer 16 that receives the extracted URLs again retrieves particular Web pages directly from the corresponding Web servers. Specifically:

Once the URLs have reached the personal computer 16, system operation is similar for all of the embodiments diagramed in FIGS. 1, 2, and 4.

....

... The client software 106 [FIG. 4] retrieves URLs from the video program (embodiment of FIG. 1) or directly from the Internet connection (embodiments of FIGS. 2 and 4), interprets these URLs and directs the JAVA enabled browser 98 *to retrieve the particular relevant Web pages 102*, and synchronizes the retrieved Web pages to the video content for display on the user's computer 16.

(Col. 7, lines 31-53, emphasis added.)

As the video is received by the PC 16, URLs are either being received with the video signal or are being received directly via the Internet 20 or another data channel, and are being interpreted by the client software 106. Upon direction and command, the JAVA enabled browser 98 *retrieves particular Web pages 102 from Internet 20 Web sites identified in the URLs.*

(Col. 8, lines 43-49, emphasis added.)

Accordingly, in Ullman, the personal computer 16 extracts or receives URLs, interprets the URLs, and retrieves particular Web pages directly from the corresponding Web servers. As such, Ullman does not teach or suggest providing a "schedule program server" of the present invention, which receives and interprets a schedule program to generate "temporary Web pages"

• and a "display control program" that defines "a display format and display period of each of the temporary Web pages," and then sends both the display control program and the temporary Web pages to a client system. Consequently, applicant respectfully submits that Claims 10 and 11 of the present application, as amended, are allowable over Ullman. In this connection, applicant respectfully traverses the Examiner's interpretation of Ullman that its "Link File" and "playlist" correspond to the "schedule program" and the "display control program" of the present invention, respectively. (Office Action, page 6.) In Ullman, the "Link File" and "playlist" refer to the same file that lists Web pages (See "a playlist (i.e. linkfile) 160." Col. 10, line 42). On the other hand, in the present invention, the "display control program defining a display format and display period of each of the temporary Web pages" is generated *based on interpretation of* the "schedule program" and therefore the display control program and schedule program are different from each other.

Levy describes a method for a network connected device to receive multimedia content from the network. The network adapts or reformats the content to suit the network connected device based on "context information" received from the network connected device. Specifically:

[The network connected device] sends the identifier [for a media signal] to a network *along with context information indicating device type information*. From the network, the method receives related data associated with the media signal via the identifier. The related data is adapted to the network connected device based on the device type information. The device type information may include a display type, so that the related data may be formatted for rendering on the display type of the device.

([0010], emphasis added.)

Thus, in Levy, content reformatting or adaptation is done based on "context information" sent from a network connected device to the network together with an identifier for a media

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*signal. As such, Levy does not teach or suggest content reformatting or adaptation based on a "schedule program," which is selected by a user and then is interpreted to produce a "display control program" defining "a display format and display period of each of the temporary Web pages" based on the interpreted schedule program. In other words, Levy does not teach or suggest providing a "schedule program server" of the present invention, which receives and interprets a "schedule program" to generate "temporary Web pages" and to further generate a "display control program" that defines "a display format and display period of each of the temporary Web pages" based on the interpreted schedule program. Accordingly, Levy cannot cure the deficiency of Ullman, as discussed above, and therefore the subject matter as recited in Claims 10 and 11 of the present application is allowable over Ullman and Levy, either alone or in combination.


In summary, applicant respectfully submits that the subject matter that is now explicitly recited in amended Claims 10 and 11 is not taught or suggested by Ullman and Levy, either alone or in combination, and therefore Claims 10 and 11, as amended, are allowable. Further, Claims 3-4, 7-8, and 12-13 all depend from Claims 10 and 11, and therefore these dependent claims are also believed to be allowable for at least the same reasons why their independent claims are allowable.

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Based on the foregoing, applicant respectfully requests an early and favorable action allowing remaining Claims 3-4, 7-8, and 10-13 to advance the present application to issue as a patent. If the Examiner should have further questions or issues to resolve, she is invited to telephone applicant's undersigned attorney at the number set forth below.

Respectfully submitted,

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